CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0680 ENVIRONMENTAL MANAGEMENT

0680/43

Paper 4 (Alternative to Coursework), maximum raw mark 60

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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age 2	2	Mark Scheme	Syllabus	Paper
<u> </u>		Cambridge IGCSE – May/June 2015	0680	43
(a)	87 >	< 0.25 = 21.75 million;		[
(b)	(i)	could not transport goods; long travel delay; cost of extra fuel; not m possible power cuts; goods damaged by water;	nany custor	ners; [
	(ii)	desert climate/very little rain; only one day a month; so only short-te of long-term damage; probably not going to increase much in the fur evaporation; use of figures to support;;		
(c)		ng pull factors to urban areas; jobs; better wages; more services/ex ded on farms;	ample; less	alabour [
(d)	(i)	not an adequate sample/eq.; reason to support this, e.g. only 10 pe district;	eople/one s	street/
	(ii)	larger sample so more representative; allows mean to be calculated	l;	[
((iii)	one more question about either health/sources of pollution/anythin solve the problem;	g being doi	ne to [
((iv)	convert to % (yes/no);		[
	(v)	industry/garbage burning;		[
((vi)	temperature inversion; ref. to dense air; cold air holds pollution near	ground;	[
(e)		could restrict traffic – any valid example – or stop industrial producti ple: go out less/wear masks;	ion;	[
(f)	(i)	N/S is course of river Nile so needed for crops; prevent pollution; no spaces;	eed for gre	en [
	(ii)	only desert/not a farming area/away from Nile;		I
((iii)	furthest area shaded for housing and one of small areas near the N farming; key used;	ile shaded	for I
(g)	goo	d spacing between blocks; all built in the same way/to a set standar	d; AVP;	I
(h)	sew	criptions of: /age pipes/treatment; green spaces/trees; garbage collections; relia /stry/e.g. out of city; AVP;;	ble power;	move

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Ρ	age 3	Mark Scheme Syllabus Pap	
		Cambridge IGCSE – May/June 2015 0680 43	
2	(a) () both axes labelled; orientation; plots correct;;	[4]
	(i) overall increase/eq./comment on 2008 and/or 2010;	[1]
	(ii) imports to help balance poor harvests; top up reserves; cost of imports; cost to GDP;	[2]
	(iv) $(4.6 - 1.7)/1.7 = 2.9/1.7 = 170.6\%;;$	[2]
	(\) to prevent any shortage; need more reserves as population has increased; still same proportion of annual consumption/eq.;	[2]
	(b) () any three valid points from the data;;;	[3]
	(i) 308, 52; 16016;	[2]
	(ii) Sakha grains must be smaller/weigh less/converse;	[1]
	(iv) more protein (= better growth rate/immune system/less disease/eq.);	[1]
	(\) to check findings/eq.;	[1]
	(v) to make best use of expensive fertilisers/fuel; maximise yield/prevent pollution; AVF	?; [2]
		utrophication; added nitrates/phosphates; algal bloom; death of algae; blocking light to ther plants; bacteria increase; respire the oxygen; death of fish;	[4]
	, p	nprove size/numbers of grain; so no increase in area of fields needed (may not be ossible); increase in protein content; nitrogen uptake more efficient; more efficient use o rater; ref. to drought resistance; disease resistance; AVP;	f [3
		VP = Alternative Valid Point	

AVP = Alternative Valid Point.

[Total: 60]